

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|---------------|----------------------|-------------------------|------------------|
| 10/624,172 | 07/22/2003 | Alan W. Hayman | GP-301053 | 6856 |
| 759 | 90 02/08/2005 | | EXAMINER | |
| CHRISTOPHER DEVRIES | | | DOLINAR, ANDREW M | |
| General Motors Corporation Legal Staff, Mail Code 482-C23-B21 | | | ART UNIT | PAPER NUMBER |
| P.O. Box 300 | | | 3747 | |
| Detroit, MI 48265-3000 | | | DATE MAILED: 02/08/2005 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | · | | _ | <i>f</i> | | | | |
|---|--|--|---|------------------------|--|--|--|--|
| | | Application No. | Applicant(s) | 1 | | | | |
| Office Action Summary | | 10/624,172 | HAYMAN, ALAN | W! | | | | |
| | | Examiner | Art Unit | | | | | |
| | | Andrew M. Dolinar | 3747 | | | | | |
| Period fo | The MAILING DATE of this communication app or Reply | ears on the cover sheet | with the correspondence a | ddress | | | | |
| A SH THE - Exte after - If the - If NO - Faill Any | CORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 (SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply poperiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however, may within the statutory minimum of vill apply and will expire SIX (6) No cause the application to become | v a reply be timely filed thirty (30) days will be considered time IONTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133). | aly. communication. | | | | |
| Status | | | | • | | | | |
| 1)⊠ | Responsive to communication(s) filed on 12 No. | ovember 2004. | | | | | | |
| 2a)⊠ | This action is FINAL . 2b) This action is non-final. | | | | | | | |
| 3)[| Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | | |
| | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | | |
| Disposit | ion of Claims | | | | | | | |
| 4)⊠ | Claim(s) <u>1-3 and 6-18</u> is/are pending in the application. | | | | | | | |
| | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | | |
| 5) | Claim(s) is/are allowed. | | | | | | | |
| 6)⊠ | Claim(s) <u>1-3 and 6-18</u> is/are rejected. | | | | | | | |
| 7) | Claim(s) is/are objected to. | | | | | | | |
| 8)[| Claim(s) are subject to restriction and/or election requirement. | | | | | | | |
| Applicat | ion Papers | | | | | | | |
| 9)[| The specification is objected to by the Examine | r. | | | | | | |
| | 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. | | | | | | | |
| | Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | | |
| | Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | | |
| 11)[| The oath or declaration is objected to by the Ex | aminer. Note the attach | ned Office Action or form P | TO-152. | | | | |
| Priority (| under 35 U.S.C. § 119 | | | | | | | |
| | Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau | s have been received. s have been received ir ity documents have be | Application No | l Stage | | | | |
| | See the attached detailed Office action for a list | of the certified copies n | ot received. | | | | | |
| Attachmen 1) Notice | et(s) ce of References Cited (PTO-892) | · 4) 🗖 Intention | w Summary (PTO-413) | | | | | |
| 2) 🔲 Notic | ce of Draftsperson's Patent Drawing Review (PTO-948) | Paper N | lo(s)/Mail Date | | | | | |
| | mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date | 5) Notice o | of Informal Patent Application (PT | O-152) | | | | |

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-3 and 6-18 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claims 1, 10 and 17 appear to be inconsistent with the disclosure of the application as filed. The specification has no express disclosure of opening the respective inlet and exhaust valves of each cylinder. The exemplary embodiment of Figures 3 and 4 is described as opening the inlet valve of one cylinder and exhaust valve of another cylinder for two cycles. The inlet and exhaust valves of two of the four cylinders do not appear to be opened as claimed.

Response to Arguments

Applicant's arguments with respect to claims 1-3 and 6-18 have been considered but are moot in view of the new ground(s) of rejection. Claims 1-3 and 6-18 would appear to be allowable over the prior art of record if amended to be clearly consistent with the disclosure of the application as filed.

Art Unit: 3747

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew M. Dolinar whose telephone number is (571) 272-4840. The examiner can normally be reached on Mon. - Thu. 7:45 - 6:15.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on (571) 272-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 3747

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andrew M. Dolinar Primary Examiner Art Unit 3747

AMD